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Rat monoclonal antibody against human/mouse CD49f

Product No. ADG5060

Description

CD49f is a 120 kD integrin family member also known as VLA-6 α chain and α_6 integrin subunit. CD49f associates with either integrin β_1 (CD29) or integrin β_4 (CD104) to form receptors (VLA-6 or $\alpha_6\beta_4$ complex) for laminin and kalinin. CD49f is expressed on platelets, monocytes, T cells, placental trophoblasts, and epithelial and endothelial cells. CD49f is involved in adhesion and can act as a co-stimulatory molecule for T cell activation and proliferation.

Properties

The monoclonal antibody ADG5060 (clone NKI-GoH3) is a rat monoclonal antibody, subclass IgG_{2a}. The antibody has been purified from cell culture supernatant using Ion exchange.

This clone has been derived from hybridization of SP2/0 cells with spleen cells of Sprague Dawley rats immunized with cells from mammary tumours induced in a BALB/c mouse by the C3H mouse mammary tumour virus. This antibody has been clustered to CD49f in the fifth international Workshop on Human White Cell differentiation Antigens in Boston (1993). The monoclonal antibody is directed against the CD49f-antigen (GP Ic or VLA-6 alpha chain), which can form distinct complexes with either the CD29-antigen (GP IIa or VLA beta chain), resulting in the VLA-6 (alpha-6 beta-1) complex, which is expressed on human platelets, or with the beta-4 integrin resulting in the alpha-6 beta-4 complex, which is expressed on various human epithelial cells. The monoclonal antibody reacts with platelets, megakaryocytes, T lymphocytes and common acute lymphoblastic leukaemia cells (alpha-6 beta-1).

In immunohistology the monoclonal antibody reacts with epithelial cells of a variety of tissues, peripheral nerves, microvascular endothelial cells, placenta cyto- and syncytiotrophoblasts.

Presentation

Vial containing 100 µg /100 µl of purified antibody PBS containing 0.09 % sodium azide (pH 7.2) pH 7.2. The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

Storage and Stability

Store at 4 °C. For long-term storage aliquot and store at -20°. It is recommended to avoid freeze-thaw cycles. The reagent is stable until the expiry date stated on the vial label.

Applications

Flow Cytometry

References

1.Sonnenberg, A. et al., J.Biol.Chem., 262, 10376 (1987).
2.Hemler, M.E. et al., J.Biol.Chem., 263, 7660 (1988).
3.Sonnenberg, A. et al., J.Biol.Chem., 263, 14030 (1988).
4.Hemler, M.E. et al., J.Biol.Chem., 264, 6529 (1989).
5.Sonnenberg, A. et al., Nature, 336, 487 (1988).

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Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

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